User's Manual for the CBMS Statistics Simulator (StatSimSGE version 4.0)

September 2008

Prepared by
CBMS Network Coordinating Team
Angelo King Institute for Economic and Business Studies

This manual was carried out by the PEP-CBMS Network Coordinating Team with the financial support of the Government of Canada provided through the International Development Research Centre (IDRC) and the Canadian International Development Agency (CIDA)

USER'S MANUAL FOR CBMS STATISTICS SIMULATOR (STATSIMSGE VERSION 4.0)

I. INTRODUCTION

This manual contains guidelines and instructions on the use of the CBMS Statistics Simulator (StatSimSGE version 4.) designed and customized for the LGU partners of the CBMS Network Coordinating Team.

The StatSim is a MySQL application developed to simulate simple computations and tabulations usually done using statistical software or other tabulation applications, and also to export indicators for use in dissemination such as tables and maps. Although this has the mentioned capability, StatSim is not intended to replace the use of more sophisticated statistical software like SAS, Stata or SPSS.

A. System Configuration

The following system configuration should be met for better and faster data processing:

- Pentium IV processor or equivalent
- 256MB of RAM
- SVGA monitor
- Mouse
- 80MB of free hard drive space
- Microsoft Windows 98, Me, NT 4.0, 2000, XP or 32-bit Vista
- Microsoft Office 2003

B. Installation

The quick and simple installation procedure below will update the existing CBMS encoding system in the computer.

Steps in installing the software:

1. Insert the installation CD provided by the CBMS Team in the computer's CD-ROM drive
2. The setup menu will automatically popup. If it does not, open windows explorer and double click the CD drive where the CD is located and run "**manage.exe**".

3. A welcome screen will appear. Click **"Next"**.
4. The setup will require the user to accept the agreement upon using the software. After agreeing on the terms, click **"Next"**.
5. A pop-up screen will appear asking for Customer Information, Enter the name of the user as well as the company/office name. Click **"Next"**.
6. The user will be prompted to select a set-up type. Select Complete and Click **"Next"**.
7. Click **"Install"** to begin the Installation.
8. A pop-up screen will appear informing that the InstallShield Wizard has successfully installed CBMS StatSimSGE 4.0. Click **"Finish"**.

II. GENERAL INSTRUCTIONS

- Set-up and maintain a computer that will serve as your data repository. This computer should store all encoded text files and NRDB files.
- Before using the StatSim for processing and consolidating your data, check first for the accuracy and consistency of your text files.
- If needed, perform a concatenation procedure (refer to Section III of the User's Manual for the Computerized Data Encoding System) to merge encoded household data from same barangays. This is crucial prior to the simulation process.
- Check the matching of households in the encoded data and digitized spot map using the Household Identification Number. **A complete matching of households for both datasets must be attained before processing to avoid repeating the steps.**
- The application will guide the user through the process through clicks and dialogs.

III. PREPARING ENCODED DATA FOR STATSIM PROCESSING

A. CBMS Database Structure

By now, the encoders and processors should likely be familiar with the file structure of the CBMS Database. However, it must still be noted that the general file/folder structure of the CBMS Database is:

C:\CBMSDatabase\<Region>\<Province>\<Municipality>\<Barangay>

The folder structure was designed so that the encoded data are stored by barangay. Thus, each barangay folder contains the text (ASCII) file where the household data are stored. Recall that the folder names make use of the Philippine Standard Geographic Codes (PSGC). For instance, if the encoded data of interest is Brgy. Pila, San Pascual, Batangas, the target file will be:

C:\CBMSDatabase\04\10\26\019\041026019.hpq

The file path above refers to the folder containing the encoded data (**041026019.hpq**) of Barangay Pila (019), San Pascual (26) in Batangas (10) in Region IVA (04). The folder structure is the same in all computers used for encoding.

IV. GENERATING INDICATORS THROUGH THE CBMS STATISTICS SIMULATOR (STATSIM)

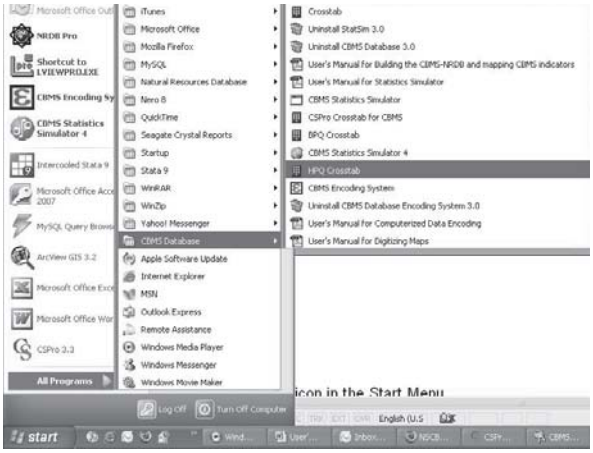
A. Opening the StatSim

1. Starting the StatSim application

   a. Click on the shortcut icon from the desktop

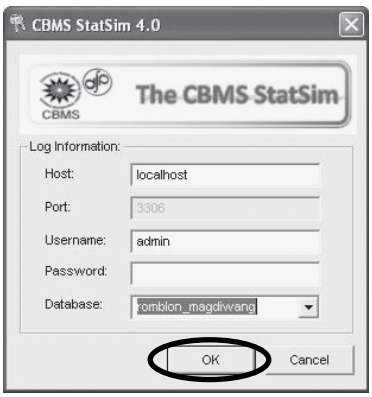
   b. Click on the shortcut icon in the Start Menu

c. Click **"Start"**, click on **"All Programs**," select **CBMS Database** and click on **"CBMS Statistics Simulator."**

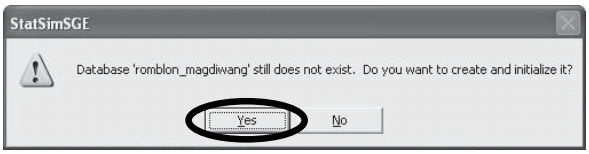


2. Initializing the StatSim database

a. The Login window will appear. The default username is "**admin**" and does not require a password. Change the database name according to the name of the province and municipality/city e.g. romblon_magdiwang. Click the button **OK**.

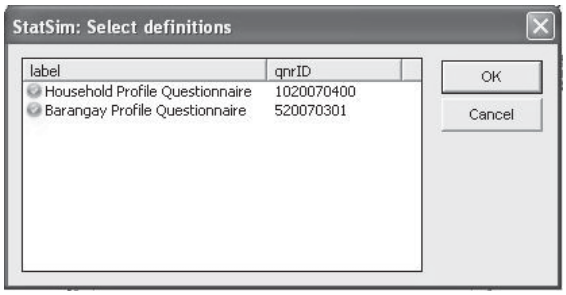


b. Another window will appear saying that the database still does not exist. Click **Yes** to create and initialize the database. Note: The next time the user will open StatSim, the database is already in the pulldown list.

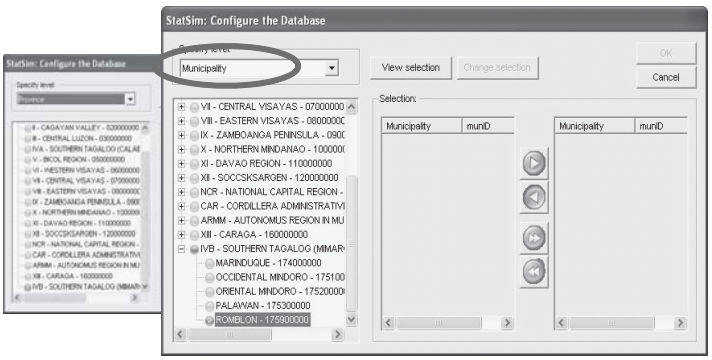


c. The StatSim is a menu- and dialog-driven application. Thus the user only has to click and select from among the options to proceed and generate the desired outputs. StatSim is also a customized application for a specific CBMS questionnaire version and local government unit (LGU) using the said questionnaire version, thus all information contained in the questionnaire can be derived and processed for the LGU.

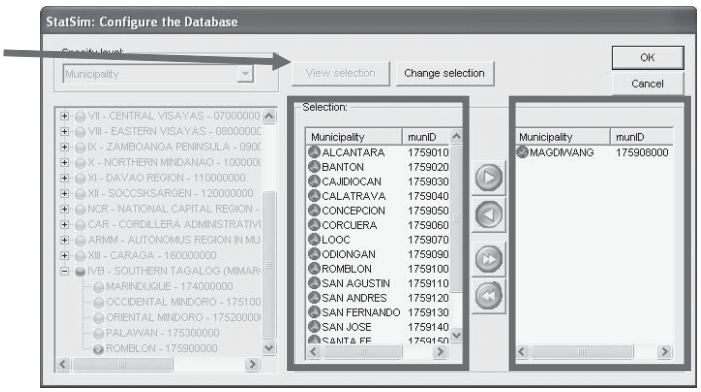
Each questionnaire is differentiated by the HPQ version number. For example, the latest version of the HPQ and BPQ are 10200704 and 5200703, respectively. Check both labels and Click **OK**.



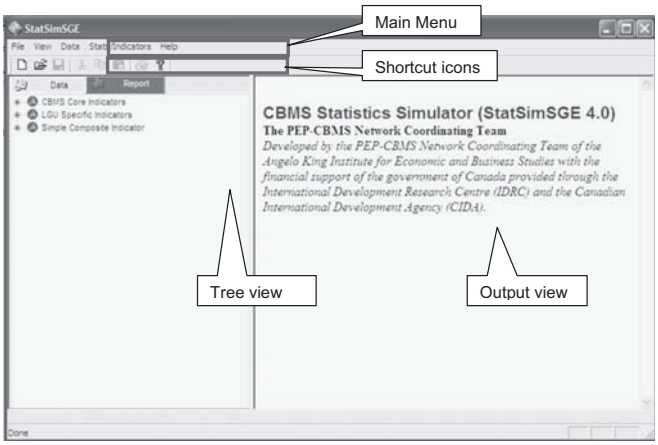
d. Configuring the database means specifying the level to be a municipal, provincial or regional database. For this example, create a municipal database.



e. Click the button **View selection.** From the listed municipalities, double click on the name of the municipality and Click **OK.** For this example, StatSim database for the municipality of Magdiwang in Romblon will be created.



The StatSim interface will now open.

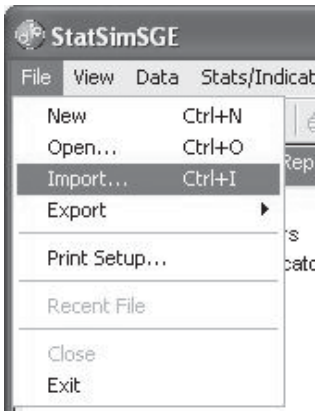

Main Menu
Shortcut icons
CBMS Statistics Simulator (StatSimSGE 4.0)
The PEP-CBMS Network Coordinating Team
Developed by the PEP-CBMS Network Coordinating Team of the Angelo King Institute for Economic and Business Studies with the financial support of the government of Canada provided through the International Development Research Centre (IDRC) and the Canadian International Development Agency (CIDA).
Tree view
Output view

Note: When you are opening a configured database, you will not need to do the procedure discussed in (b) to (e).

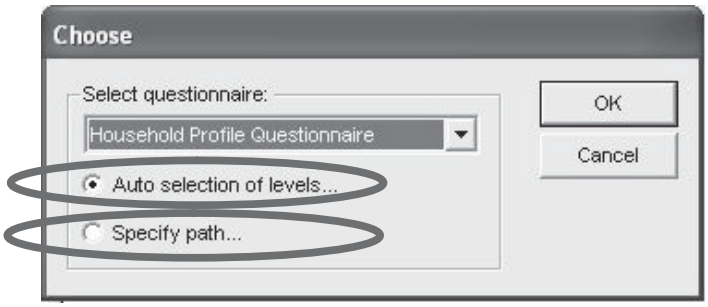
B. Importing CBMS Data

This section will guide you through the process of importing your encoded data file into the StatSim. In the importing process, the StatSim transforms the encoded data into a database ready for further processing and tabulation.

1. To import an encoded barangay data, go to **File** in the main menu, then select Import.

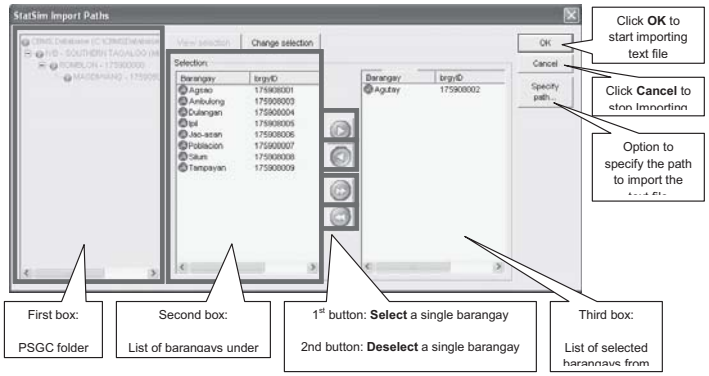


The user has two ways of importing the encoded data: one is the option to select the text file through the **Auto selection of levels** and the other is through the **Specify path** option.



a. Auto Selection of levels

The geopolitical levels are pre-specified following the Philippine Standard Geographic Code (PSGC) folder structure. In the example below, the selection starts from the region, followed by the province, then by the list of municipalities (viewed in the first box) and all barangays under each municipality. The list of barangays can be seen at the second box in the window. Selecting the barangays is easy as selection buttons are present between the second and third box. The third box contains barangays which have been selected from the second box.

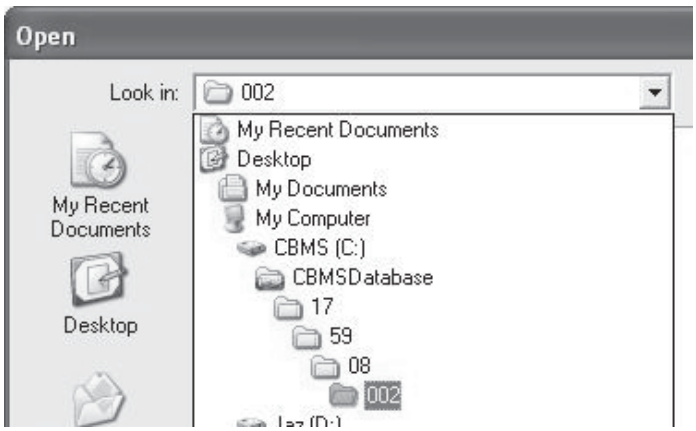


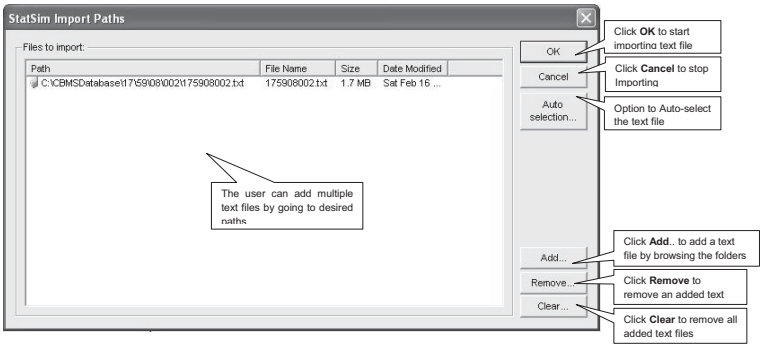
b. Specify path

The specify path options allow the user to manually select the encoded data similar to opening files using Windows Explorer.

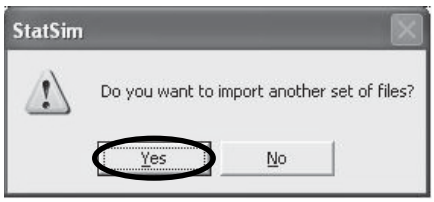
In the window, click the button **Add** to open the browser.

From the browser, select the text file. Usually, as instructed during the training, all the text files follow the PSGC folder structure. For example, in selecting the text file of Brgy. Agutay, Magdiwang, Romblon select the text file 175908002.hpq from the folder C:\CBMSDatabase\17\59\08\002.

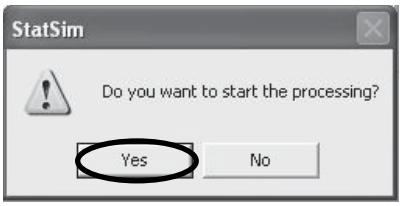




2. After selecting the text file/files from the auto selection of levels or through specifying the paths, click **OK** to start. While fetching, a window will appear indicating "Statsim fetch: Processing __%"
3. After the selected files have been imported, a window will appear to ask if the user wants to import another set of data. Click Yes to add again using the same process or No if user is already done importing desired text files.



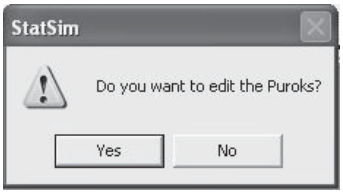
4. Another window will appear, click **Yes** to start the processing.



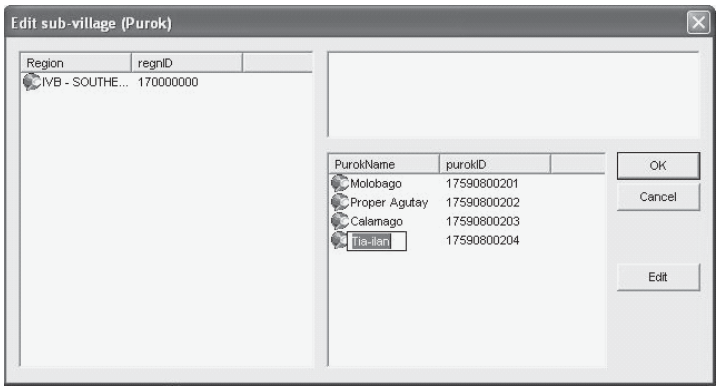
5. A window will appear to ask if the user wants to edit the Purok names. Recall that in the CSPro-based encoding system, all puroks are encoded as codes to reduce mismatches in names.

This step is very crucial because the labels/names of the puroks in this section must match their names in the NRDB file, since matching of these files are both case- and space-sensitive.

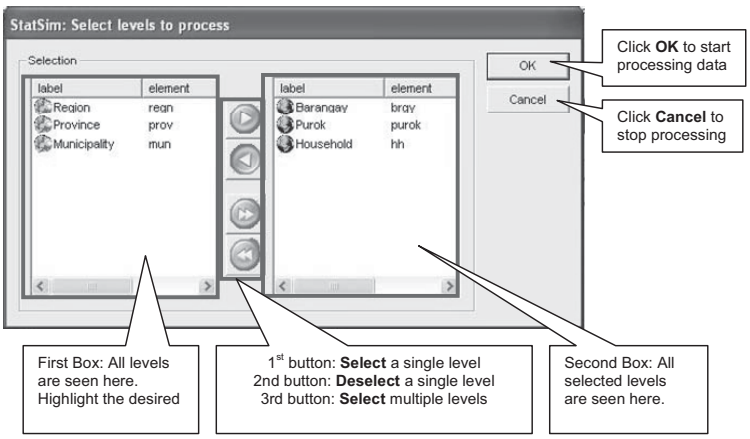
Click **Yes** to edit the Purok names.



6. Double-click on the **PurokName** to change the names. After editing all the names, click **OK**.

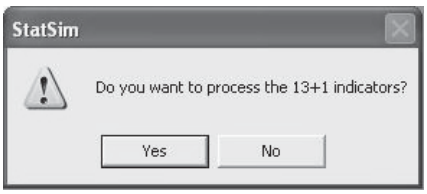


7. The user will now be prompted to select at what level the data will be processed. The user can select from the label in the first box and click the button to specify the desired geopolitical levels.



C. Processing the 13+1 CBMS Core Indicators

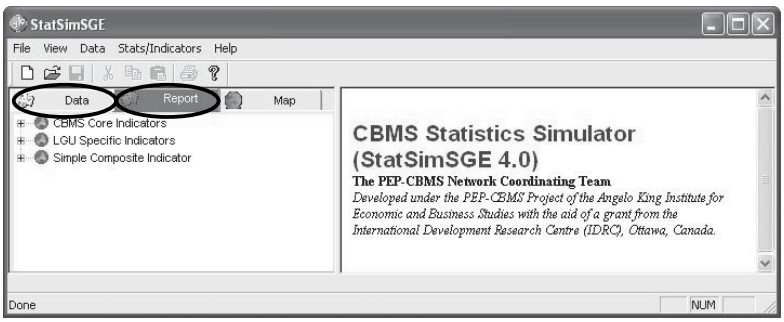
1. The user will be asked if she/he wants to process the CBMS core indicators. Click **Yes** to proceed.



While StatSim is processing, you will see the status of the processing activity at the bottom of the page. Please note that the length of time required in processing the data depends on the size of the file, the number of text files that the user is processing and the number of selected levels (region, province, municipality, barangay, purok and households). When done, the status will now indicate "**ready**" or "**done**".

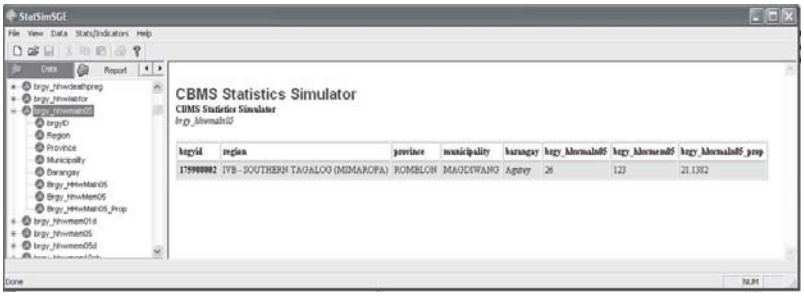
D. Displaying the CBMS Core Indicators

To view the data, the StatSim contains the tree view of the data and report tables (Data and Report Tabs) in the left side of the interface.


StatSimSGE
File View Data Stats/Indicators Help
Data
Report
Map
CBMS Core Indicators
LGU Specific Indicators
Simple Composite Indicator
CBMS Statistics Simulator
(StatSimSGE 4.0)
The PEP-CBMS Network Coordinating Team
Developed under the PEP-CBMS Project of the Angelo King Institute for Economic and Business Studies with the aid of a grant from the International Development Research Centre (IDRC), Ottawa, Canada.
Done
NUM

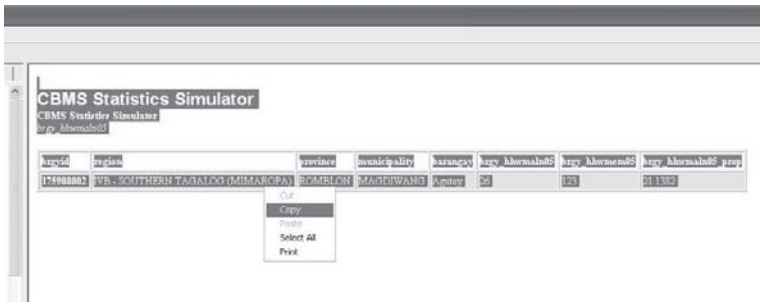
1. Data Tab

The Data tab at the left side of the StatSim contains all the data that the program had automatically computed. The computed tables are named by each level and the data it contains. Clicking a table shows the variable names and data.

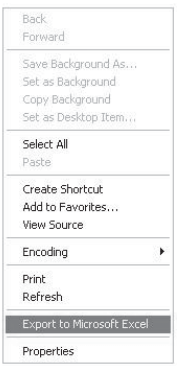


For example, the table brgy_hhmaln05 shows the barangay ID, region, province, municipality, barangay name, number of households with children 0-5 years old who are malnourished (brgy_hhmaln05), number of households with children 0-5 years old (brgy_hhwmem05) and proportion of households with children 0-5 years old who are malnourished (brgy_hhmaln05). Please refer to **Annex 1** for the data dictionary and list of variable names.

The table can be copied to other software such as Excel, MSWord, etc. To do this, click **Ctrl-A** (select all) then right-click and click **Copy then Paste** to the desired program. Another option is to right-click in the output view and select the option "**Export to Microsoft Excel**".



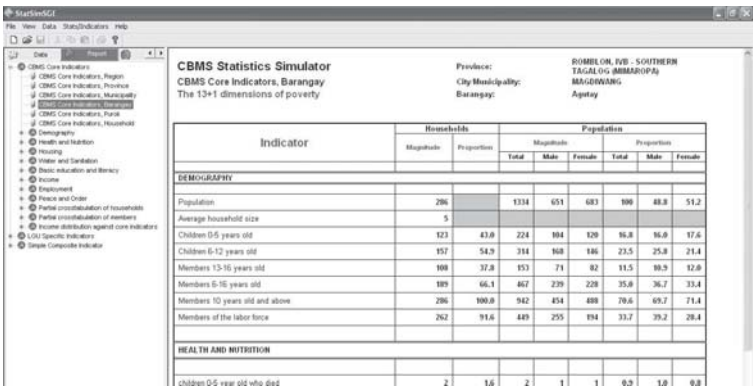
or



2. Reports Tab

The Report tab shows ready-made tables that can be printed right away or attached to documents. As compared to the Data tab, the reports generated here do not contain variable names as column headings but are properly titled so that the reports can be easily understood.

To display the CBMS Core Indicators, click on **CBMS Core Indicators** in the report view. Choose the level of the data you wish to view. If you choose to display the CBMS Core Indicators at the barangay level, then you will be able to view an output similar to the one displayed below:



CBMS Statistics Simulator

CBMS Core Indicators, Barangay

The 13+1 dimensions of poverty

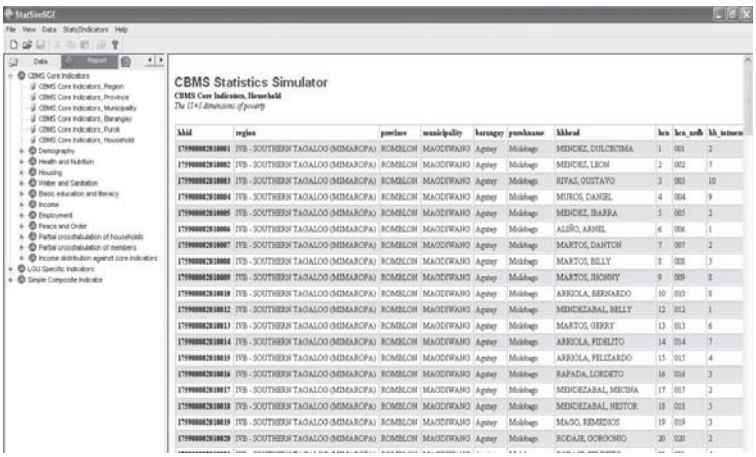
Province: ROMBLON, IVB - SOUTHERN TAGALOG (MIMAROPA)

City/Municipality: MAGDIWANG

Barangay: Agutay

Indicator	Households		Population					
	Magnitude	Proportion	Magnitude			Proportion		
			Total	Male	Female	Total	Male	Female
DEMOGRAPHY								
Population	286		1334	651	683	100	48.8	51.2
Average household size	5							
Children 0-5 years old	123	43.0	224	104	120	16.8	16.0	17.6
Children 6-12 years old	157	54.9	314	168	146	23.5	25.8	21.4
Members 13-16 years old	108	37.8	153	71	82	11.5	10.9	12.0
Members 6-16 years old	189	66.1	467	239	228	35.0	36.7	33.4
Members 10 years old and above	286	100.0	942	454	488	70.6	69.7	71.4
Members of the labor force	262	91.6	449	255	194	33.7	39.2	28.4
HEALTH AND NUTRITION								
children 0-5 year old who died	2	1.6	2	1	1	0.2	1.0	0.8

If you choose to display the CBMS Core Indicators at the household level, below is the sample output:



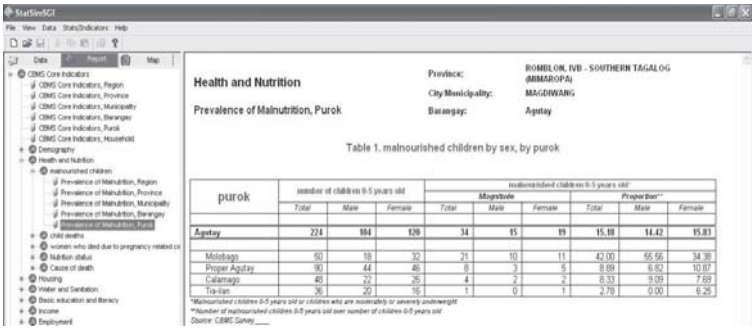
CBMS Statistics Simulator

CBMS Core Indicators, Household

The 13+1 dimensions of poverty

khid	region	province	municipality	barangay	psnkname	khhead	hcn	hcn_noth	kh_wimem
175900002810001	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MENDEZ, DULCEISMA	1	001	2
175900002810002	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MENDEZ, LEON	2	002	7
175900002810003	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	RIVAS, GUSTAVO	3	003	10
175900002810004	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MUROL, DANIEL	4	004	9
175900002810005	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MENDEZ, IBARRA	5	005	2
175900002810006	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	ALIÑO, ARNEL	6	006	1
175900002810007	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MARTOS, DANTON	7	007	2
175900002810008	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MARTOS, BILLY	8	008	5
175900002810009	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MARTOS, JHONMY	9	009	8
175900002810010	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	ARRIOLA, BERNARDO	10	010	8
175900002810012	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MENDEZABAL, BELLY	12	012	1
175900002810013	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MARTOS, GERRY	13	013	6
175900002810014	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	ARRIOLA, FIDELITO	14	014	7
175900002810015	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	ARRIOLA, FELIZARDO	15	015	4
175900002810016	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	RAPADA, LORDETO	16	016	3
175900002810017	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MENDEZABAL, MICINA	17	017	2
175900002810018	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MENDEZABAL, HECTOR	18	018	5
175900002810019	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	MAGO, REMEDIOS	19	019	3
175900002810020	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Malabago	RODAJE, GORGONIO	20	020	2

Users can also choose to display one indicator at a time only by clicking on the specific sector and indicator then choosing the level of data to view. For this example, the user opted to see prevalence of malnutrition at the purok level. The output view shows data for 4 puroks of Brgy. Agutay.



Health and Nutrition

Prevalence of Malnutrition, Purok

Province: ROMBLON, IVB - SOUTHERN TAGALOG (MIMAROPA)

City Municipality: MAGDIWANG

Barangay: Agutay

Table 1. malnourished children by sex, by purok

purok	number of children 0-5 years old			malnourished children 0-5 years old*					
				Magnitude			Proportion**		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Agutay	224	104	120	34	15	19	15.18	14.42	15.83
Molobago	50	18	32	21	10	11	42.00	55.56	34.38
Proper Agutay	90	44	46	8	3	5	8.89	6.82	10.87
Calamago	48	22	26	4	2	2	8.33	9.09	7.69
Tia-ilan	36	20	16	1	0	1	2.78	0.00	6.25

*Malnourished children 0-5 years old or children who are moderately or severely underweight

**Number of malnourished children 0-5 years old over number of children 0-5 years old

Source: CBMS Survey____

Users can also view **Selected LGU indicators** and the **Simple Composite Index** automatically computed by the StatSim.

There are 14 basic needs (14 CMS core indicators) that each household should meet. The Simple Composite Index (SCI) is the sum of all unmet needs of the households. For example, HH#1 has (1) income below poverty threshold; (2) children who are malnourished; and (3) children who are not attending elementary school. Thus, the SCI of HH#1 is 3. Below is a sample output. Note that the list is sorted from the lowest to the highest SCI.

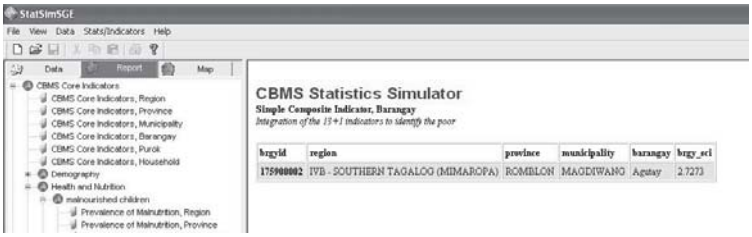
CBMS Statistics Simulator

Simple Composite Indicator, Household

Integration of the 13+1 indicators to identify the poor

hhid	region	province	municipality	barangay	purokname	hhhead	hh_sci
175000020100006	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago	ALIÑO, ANNEL	0
175000020100024	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago	RIVAS, AMPARO	0
175000020100038	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago	RUGAS, BENYBENIDA	0
175000020100042	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago	MENDEZABAL, FREDDIE	0
175000020100045	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago	BECACCO, ROGELIO	0
175000020100046	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago	MACALIPAY, MANOLETO	0
175000020200068	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	MERERE, OLIVERIO	0
175000020200069	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	TAMSORROCO, RODOLFO	0
175000020200073	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	MUÑOZ, EMMANUEL	0
175000020200074	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	RODA, CORNELIO	0
175000020200079	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	MUTIA, JOSEPHINE	0
175000020200084	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	RAZAN, REY	0
175000020200087	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	RODRIGUEZ, FLORITO	0
175000020200088	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	VILLANUEVA, GARY	0
175000020200091	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	MARTIR, DOMINGO	0
175000020200093	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	SUSCON, RENANTE	0
175000020200099	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	HERANCE, GILBERTO	0
175000020200101	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	NAVARRO, ISMAEL	0
175000020200133	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	BERNALES, ADRIFINO	0
175000020200142	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	MINDORO, GODO	0
175000020200143	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Proper Agutay	VILLANUEVA, GLORIA	0

At the purok and higher geopolitical levels, the SCI is the average household scores at that level. In the example below, the average unmet needs of the households in Brgy. Agutay is 3. This number is useful in targeting barangays with the highest average unmet needs.



E. Customizing Indicator Tables

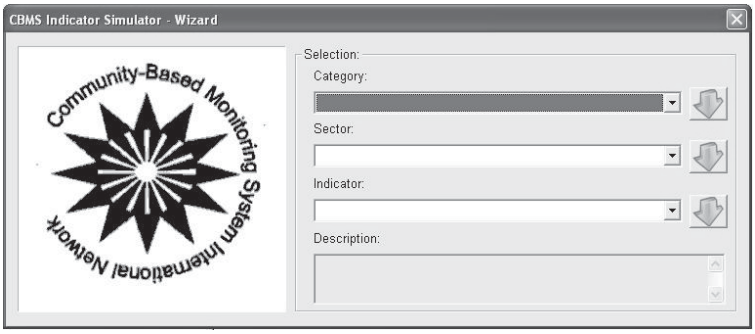
Aside from the automatically generated data, users can also create their own tables using all variables found in the HPQ. Customization involves

The CBMS Indicator Simulator – Wizard

After importing and computing initial figures (this process is internally done by StatSim), the user can now view the processed CBMS core indicators. Viewing the indicators means viewing reports through a series of dialogs.

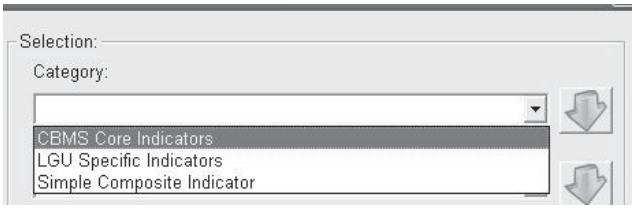
1. Displaying the CBMS Core Indicators

Go to the Stats/Indicators in the main menu and select Wizard… (shortcut: Ctrl+W). The following dialog box will be displayed.

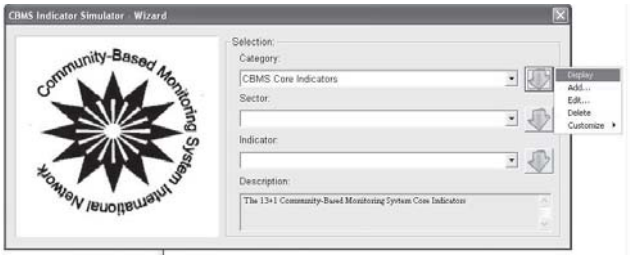


Note: To facilitate learning at this stage, we shall use the encoded household data of Brgy. Agutay in the municipality of Magdiwang in Romblon.

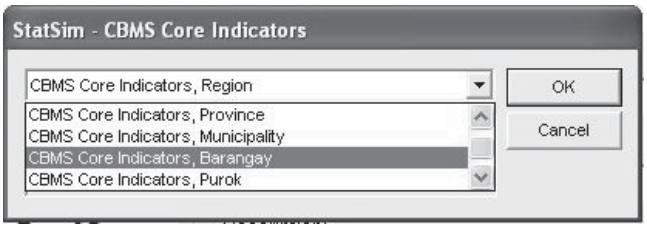
To display the CBMS Core Indicators, click on the pull-down list and select **CBMS Core Indicators**.



Afterwards, click on the blue arrow adjacent to the pull-down list and click **Display.**



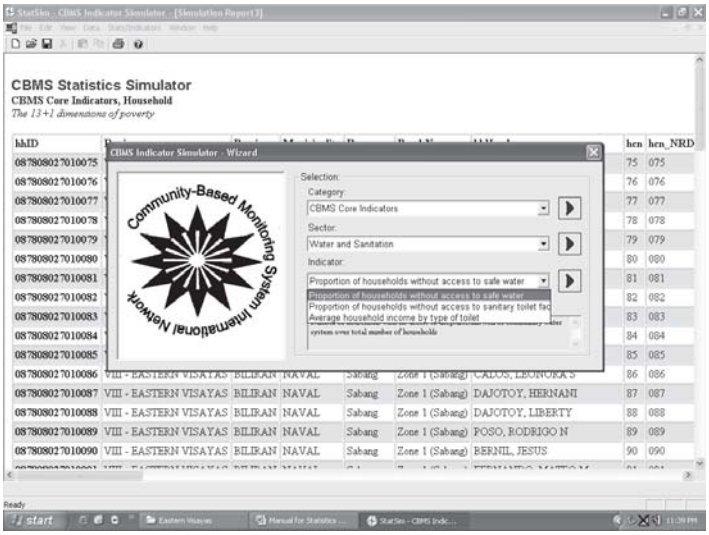
You will now be prompted to choose the level at which you want to display the CBMS Core Indicators: region, province, municipality, barangay, purok and household.



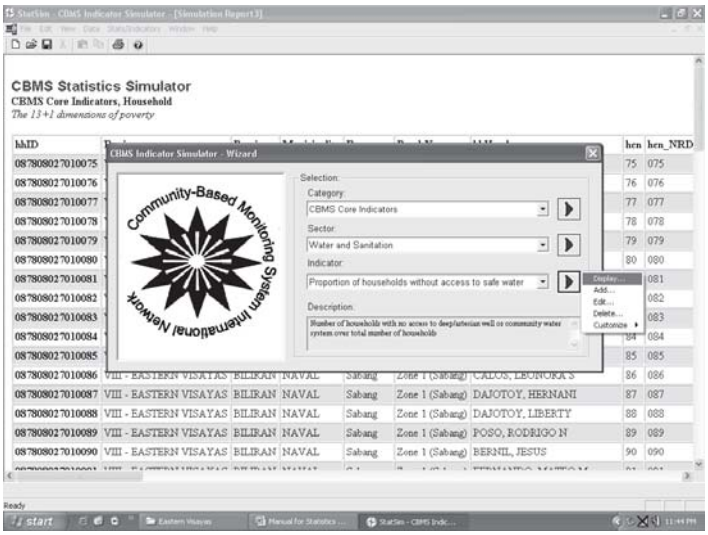
If you choose to display the CBMS Core Indicators at the barangay level, then you will be able to view an output similar to the one displayed below.

However, you can choose to display one indicator at a time only. To do this, follow the step-by-step process below:

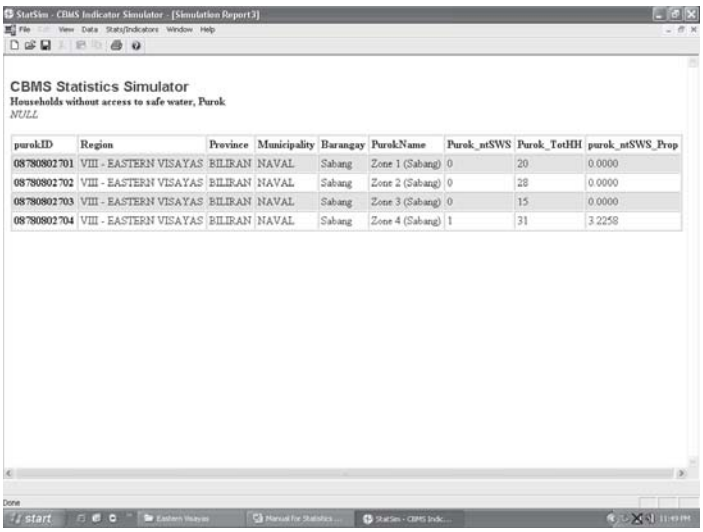
1. On Category, click on **CBMS Core Indicators**.
2. On Sector, click on **Water and Sanitation.**
3. On Indicator, click on **Proportion of Households without Access to Safe Water.**


CBMS Statistics Simulator
CBMS Core Indicators, Household
The 13+1 dimensions of poverty
CBMS Indicator Simulator - Wizard
Selection:
Category:
CBMS Core Indicators
Sector:
Water and Sanitation
Indicator:
Proportion of households without access to safe water
Proportion of households without access to safe water
Proportion of households without access to sanitary toilet fac
Average household income by type of toilet
Community-Based Monitoring System International Network

4. To display the selected indicator, Click on **Display** as shown below:



5. You will now be prompted to choose at what level to display this indicator. This time, you may choose to display **Households without Access to Safe Water** at the Purok level. When you do this, an output similar to the one displayed below will be shown:


StatSim - CBMS Indicator Simulator - [Simulation Report3]
File Edit View Data Stats/Indicators Window Help
CBMS Statistics Simulator
Households without access to safe water, Purok
NULL
purokID Region Province Municipality Barangay PurokName Purok_ntSWS Purok_TotHH purok_ntSWS_Prop
08780802701 VIII - EASTERN VISAYAS BILIRAN NAVAL Sabang Zone 1 (Sabang) 0 20 0.0000
08780802702 VIII - EASTERN VISAYAS BILIRAN NAVAL Sabang Zone 2 (Sabang) 0 28 0.0000
08780802703 VIII - EASTERN VISAYAS BILIRAN NAVAL Sabang Zone 3 (Sabang) 0 15 0.0000
08780802704 VIII - EASTERN VISAYAS BILIRAN NAVAL Sabang Zone 4 (Sabang) 1 31 3.2258
Done
start

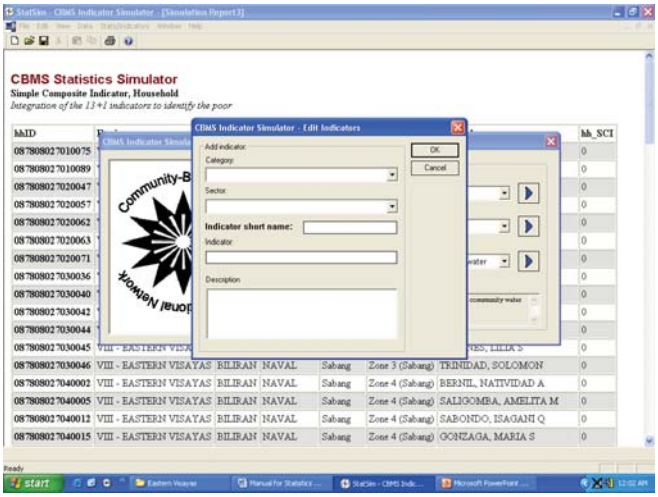
Follow the processes described above in displaying the **Simple Composite Indicator** as well as other indicators.

2. Customizing Indicator Tables

You will notice that one household in Zone 4 does not have access to safe water. At this point, you may want to list the household using the StatSim.

First you may want to add an indicator. Note that an indicator is not necessarily a table but a definition of information about households, puroks, barangays, etc. To do this, follow the steps below:

1. On the Category, click on **CBMS Core Indicators**.
2. On the Sector, click on **Water and Sanitation.**
3. On the Indicator, click on **Proportion of Households without Access to Safe Water.**
4. Click on the blue arrow adjacent to the indicator above and click on Add.
5. The following dialog box will appear:



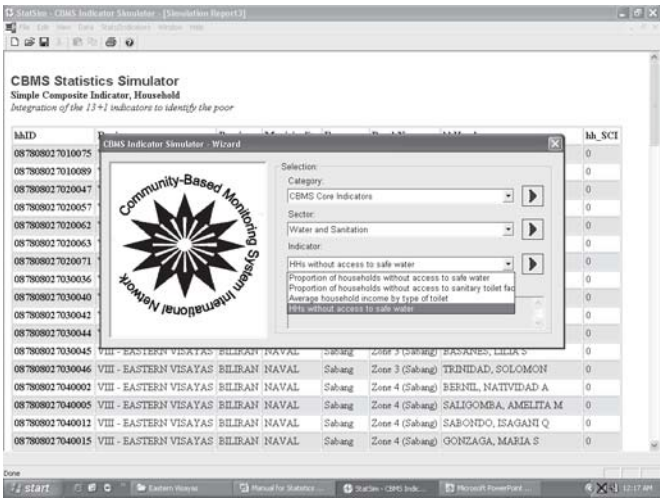
6. In the above dialog box do the following:

   a, On Category, click on the pull-down list and click on **CBMS Core Indicators**.

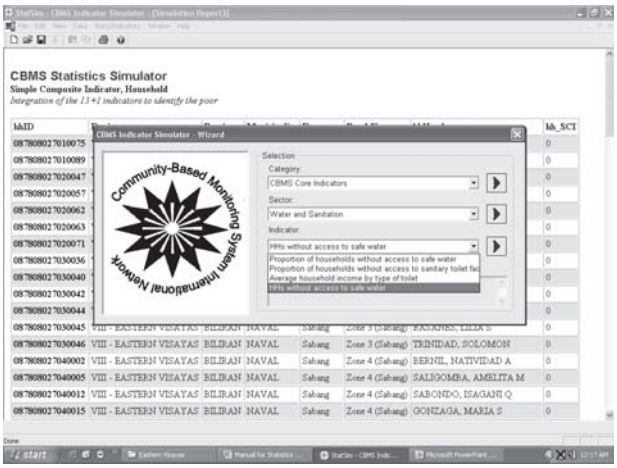
   b. On Sector, click on the pull-down list and click on **Water and Sanitation**.

   c. On the box adjacent to Indicator Short Name, type **HHsnowateraccess.** Note that the short name should be one word only.

   d. On the box under Description, type **list of households without access to safe water.**

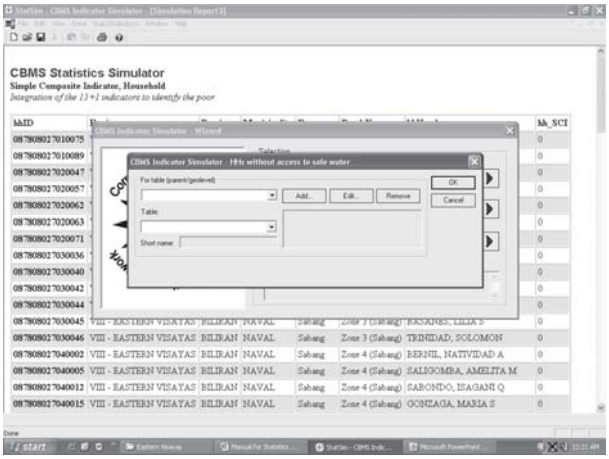

CBMS Statistics Simulator
Simple Composite Indicator, Household
Integration of the 13+1 indicators to identify the poor
CBMS Indicator Simulator - Wizard
Selection:
Category:
CBMS Core Indicators
Sector:
Water and Sanitation
Indicator:
HHs without access to safe water
Proportion of households without access to safe water
Proportion of households without access to sanitary toilet fac
Average household income by type of toilet
HHs without access to safe water
hhID
hh_SCI

7. Click on **OK.**
   a. A dialog box will appear asking if you want to add 'HHs without access to safe water'. Click on **Yes**.
   b. A dialog box will again appear confirming that 'HHs without access to safe water' has been added.
8. On the Indicator Simulator Wizard, you will notice that 'HHs without access to safe water' is now part of the Indicator pull-down list as shown below:

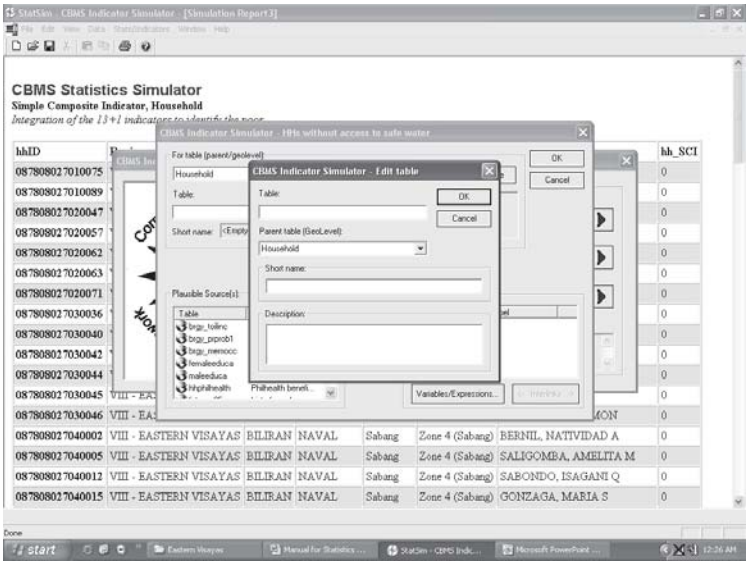

CBMS Statistics Simulator
Simple Composite Indicator, Household
Integration of the 13+1 indicators to identify the poor
CBMS Indicator Simulator - Wizard
Selection
Category
CBMS Core Indicators
Sector
Water and Sanitation
Indicator
HHs without access to safe water
Proportion of households without access to safe water
Proportion of households without access to sanitary toilet fac
Average household income by type of toilet
HHs without access to safe water
Community-Based Monitoring System International Network

Next, you may now link to and customize tables for your newly defined indicator. To do this:

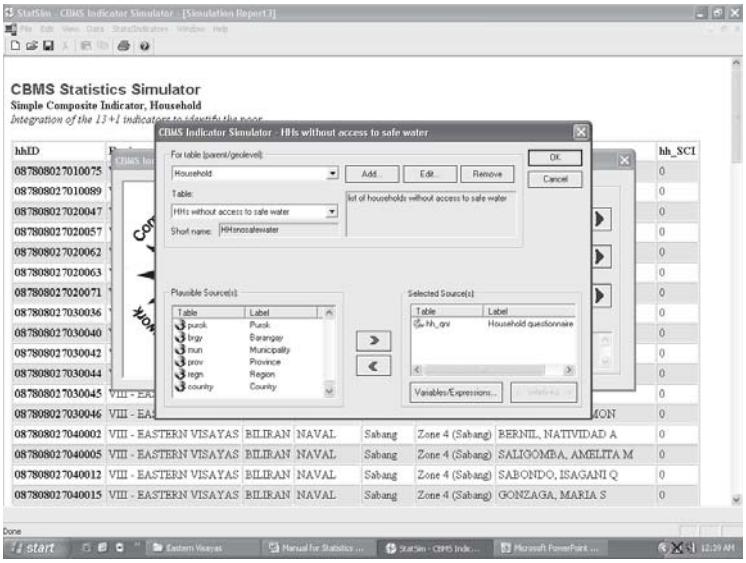
1. Click on 'HHs without access to safe water' and click the blue arrow adjacent to it. Select **Customize** and then click on **Table**.
2. A dialog box similar to the one displayed below will be shown:



3. Under table (parent/geolevel), select **Household**. Note that you are doing this because the indicator is at the household level.
4. Click on the **Add** button. A dialog box similar to the one displayed below will appear:

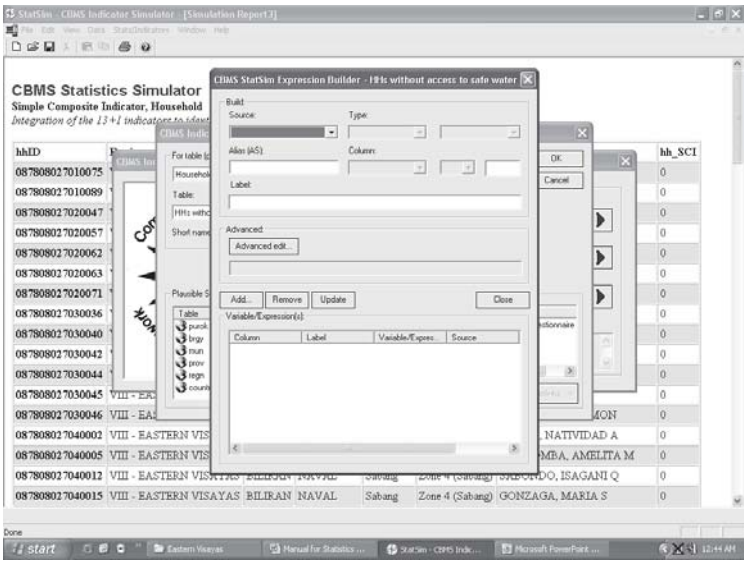


5. On the dialog box, do the following:
   a. Under Table, type "HHs without access to safe water."
   b. Under Short Name, type "HHsnosafewater."
   c. Under Description, type "list of households without access to safe water."
6. Note that some of the information is arbitrary. Click on **Ok**.
7. A dialog box will appear asking you if you want to add the definition of "HHs without access to safe water." Click **Yes**. A dialog box will again appear confirming that the definition has been added. You will then be directed to the Indicator Simulator for "HHs without access to safe water." You will notice that under Table, you can now select "HHs without access to safe water."
8. Under Plausible Source(s), select **hh_qnr** (label: Household Questionnaire) and click on the red arrow pointing to the box on the selected sources. Note that at this stage, you are selecting the sources where information about the indicator could be found.



9. To define the contents of your table, click on **Variables/ Expressions.**

10. A dialog box similar to the one displayed below will appear:



11. Do the following:
    a. To display household ID:
        i. Under Source, click on **hh_qnr**.
        ii. In Type, use **Value**.
        iii. In Alias, type "Household ID". You can repeat this in the Label.
        iv. Under Column, select **hcn** which contains information on the household ID.
        v. Click Add.
    b. To display type of water source:
        i. Repeat (i-ii) in (a).
        ii. In Alias, type "Type of source of drinking water". You can repeat this in the Label.
        iii. Under Column, select **water** which contains information on the type of source of water used by the household.
        iv. Click Add.
    c. You can replicate this if you would like other information about the household.
12. Click **Close** and **OK** in the next dialog.
13. You can now display the list of households.

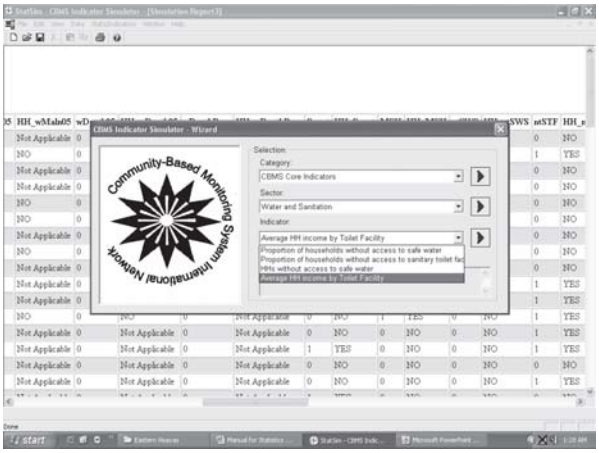
3. To display aggregates

Aside from generating lists, you can also use the CBMS StatSim to display aggregates. For example, you may follow the step-by-step process below in generating an output that can display the **Average Household Income by Type of Toilet Facility**:

1. On the Category pull-down list (in the CBMS Indicator Simulator Wizard), click on **CBMS Core Indicators**.
2. On Sector, select **Water and Sanitation.**
3. Click on the blue arrow adjacent to the indicator pull-down list and click **Add**.
4. The following dialog box will appear:

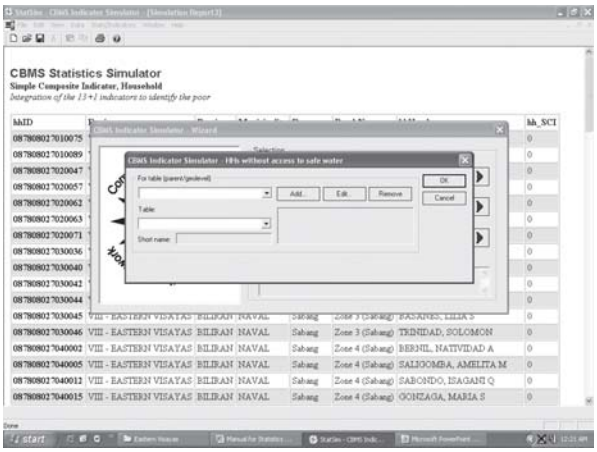
5. Do the following in the dialog:
   a. On Category, click on the pull-down list and click on **CBMS Core Indicators**.
   b. On Sector, click on the pull-down list and click on **Water and Sanitation**.
   c. On the box adjacent to Indicator Short Name, type **AvgHHinctoil**. Again, note that the short name should be one word only.
   d. On the box under Description, type **Average Household Income by Type of Toilet Facility**.

6. Click on **OK**.
   a. A dialog box will appear asking if you want to add 'Average HH Income by Toilet Facility'. Click on **Yes**.
   b. A dialog box will again appear confirming that ''Average HH Income by Toilet Facility' has been added.
7. On the Indicator Simulator Wizard, you will notice that 'Average HH Income by Toilet Facility' is now part of the Indicator pull-down list as shown below:

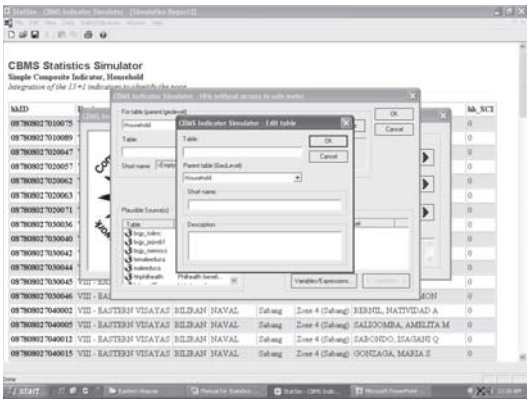

CBMS Indicator Simulator - Wizard
Selection:
Category:
CBMS Core Indicators
Sector:
Water and Sanitation
Indicator:
Average HH income by Toilet Facility
Proportion of households without access to safe water
Proportion of households without access to sanitary toilet fac
HHs without access to safe water
Average HH income by Toilet Facility
Community-Based Monitoring System International Network

Now, you can link to and customize for the newly defined indicator. To do this, do the following:

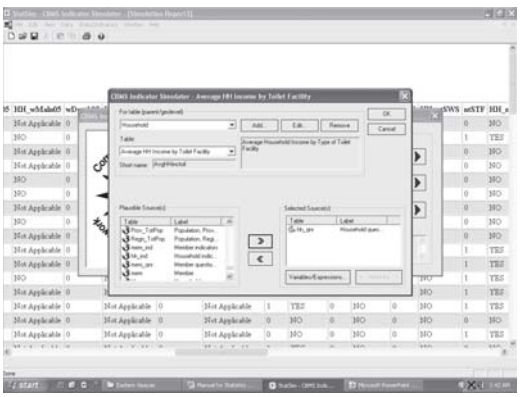
1. Click on **Average HH Income by Toilet Facility** and click the blue arrow adjacent to it.
2. Select Customize and then click on **Table**.
3. A dialog box similar to the one displayed below will be shown:



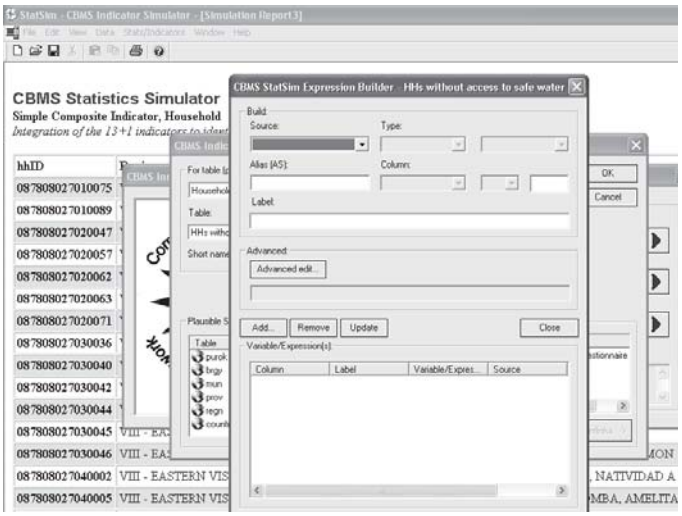
4. Under table (parent/geolevel), select **Household**.
5. Click on the **Add** button. A dialog box similar to the one displayed below will appear:



6. Do the following in the dialog:
   a. Under Table, type **Average HH Income by Toilet Facility.**
   b. Under Short Name, type **AvgHHinctoil.**
   c. Under Description, type **Average Household Income by Type of Toilet Facility**.
7. Click on **Ok**.
8. A dialog box will appear asking you if you want to add the definition of "HHs without access to safe water." Click **Yes**. A dialog box will again appear confirming that it has been added. You will then be directed to the Indicator Simulator for "Average HH Income by Toilet Facility." You will notice that under Table, you can now select **Average HH Income by Toilet Facility**.
9. Under Plausible Source(s), select **hh_qnr** (label: Household Questionnaire) and click on the red arrow pointing to the box on the selected sources.

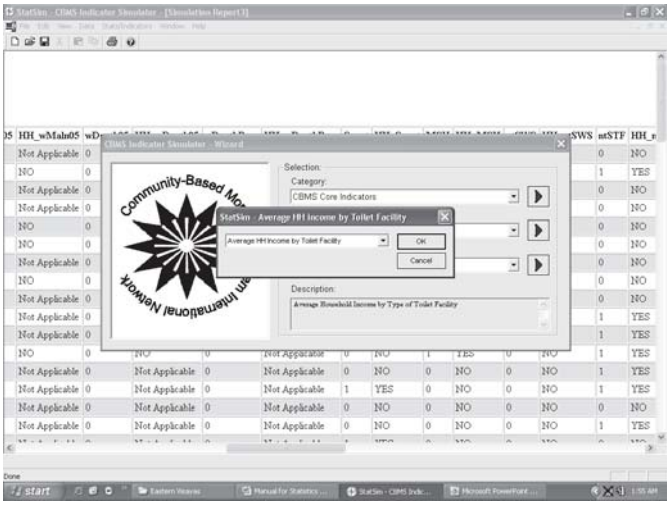


10. Click on **Variables/Expressions** to select the components of the table.
11. A dialog box similar to the one displayed below will appear:



12. To display types of toilet:
    a. Under Source, click on **hh_qnr**.
    b. Under Type, select **Value**.
    c. Under Column, select **toil** (Toilet).
    d. Under Alias and label, type **toilet facility**.
    e. Click on **Add**. The variable on Toilet Facility is now added as a variable.
13. To display average household income:
    a. Go back to Source and click on hh_qnr.
    b. Under Type, select **Expression** and click on **AVG** (Average) on the box next to it.
    c. Under Column, select **totin** (Total Income).
    d. Under Alias and label, type **average HH income**.
    e. Click on **Add**. The variable on Total Income is now added as a variable.
14. To group the averages:
    a. Go back to Source and click on **hh_qnr**.
    b. Under Type, select **Group By**.
    c. Under Column, select **toil** (Toilet).
    d. Under Alias and label, type **toilet facility1**.
    e. Click on **Add**. The variable on Toilet Facility1 is now added as a variable.
15. Click **Close**.

16. Click **Ok** on the CBMS Indicator Simulator – Average HH Income by Toilet Facility.
17. On the CBMS Indicator Simulator Wizard, you can now display **Average HH Income by Toilet Facility**.



18. Click on **Ok**. The following output will now be displayed:

CBMS Statistics Simulator

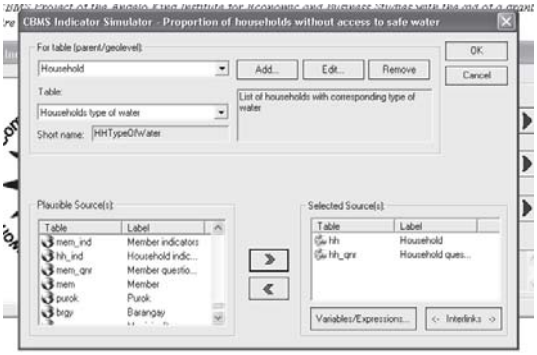
Average HH Income by Toilet Facility

Average Household Income by Type of Toilet Facility

type of toilet	average HH income
1	75781.068493
2	31454.545455
5	26050.000000

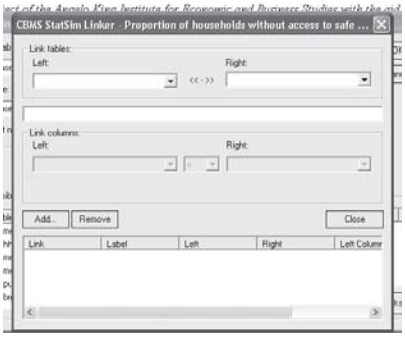
There are times that you need to get information for your table from two or more tables. This would need interlinking in order to integrate information from at least two tables.

When you select two or more sources in the table customizer, the button **Interlinks** will be activated. This would prompt the user to integrate the two tables through linking.



For example, if you would like to display household head names other than their household ID's you may want to include 'hh' table in the source. However, information in 'hh' must be linked to information in 'hh_qnr'. To make the tables relate to each other, do the following:

1. Click **Interlinks.**
2. The following dialog box will appear:



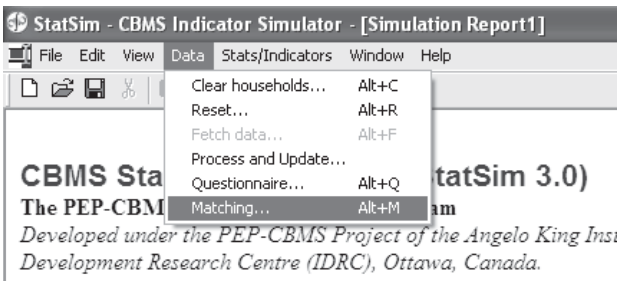
3. Do the following:
   a. In the *Left* table, select **hh** and **hh_qnr** in the *Right*.
   b. In the *Left* column, select **hcn** and also **hcn** in the *Right*. This would make the linker match household IDs in 'hh' and in 'hh_qnr'.
4. Click **Add**.
5. Add additional linkages depending on their uniqueness. For instance, if your barangay utilizes ID's unique within puroks, you must add linking between purok codes (**purok**).

You can see that in the **variables/expressions** builder, sources could be either 'hh_qnr' or 'hh'. Hence, you could make the table harness information from the two tables and eventually display the names of household heads by using steps above.

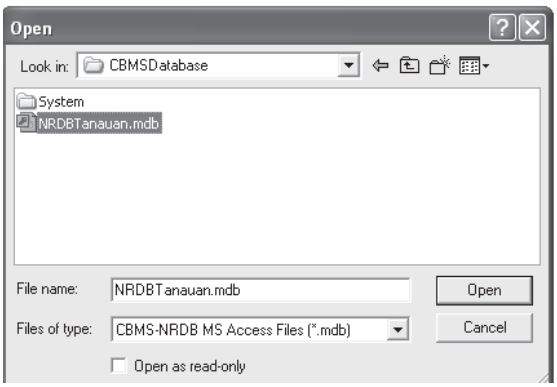
MATCHING HOUSEHOLDS IN THE ENCODED DATA AND DIGITIZED BARANGAY SPOT MAPS

Before exporting the processed dataset into the NRDB Pro, you should ensure that the households in your encoded data (i.e., text file) match with the households in your digitized barangay spot maps. To do this, perform the following:

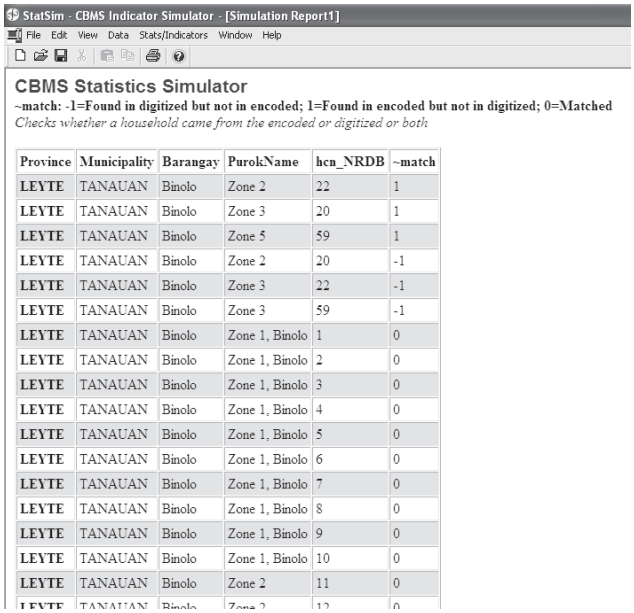
1. Click on **Data**, select **Matching**.


StatSim - CBMS Indicator Simulator - [Simulation Report1]
File Edit View Data Stats/Indicators Window Help
Clear households... Alt+C
Reset... Alt+R
Fetch data... Alt+F
Process and Update...
Questionnaire... Alt+Q
Matching... Alt+M
CBMS Sta tatSim 3.0)
The PEP-CBM am
Developed under the PEP-CBMS Project of the Angelo King Insi
Development Research Centre (IDRC), Ottawa, Canada.

2. You will be prompted to open your NRDB file (i.e., file with .mdb file extension). To do this, go to your **CBMSDatabase** folder, locate the file and click **Open**.



3. A report similar to the one displayed below will be shown. Under the last column with the following heading: ~match, will appear any of the following codes: 1, -1, or 0. Note that **Code 1** denotes that the household ID is found in your encoded file but not in the digitized spot map. **Code -1** on the other hand, denotes that the household ID is found in the digitized spot map but not found in the encoded file. **Code 0** meanwhile denotes that the household ID match on both files, that is, the household ID can be found in both the encoded file as well as in the digitized spot map.



StatSim - CBMS Indicator Simulator - [Simulation Report1]

File Edit View Data Stats/Indicators Window Help

CBMS Statistics Simulator

~match: -1=Found in digitized but not in encoded; 1=Found in encoded but not in digitized; 0=Matched

Checks whether a household came from the encoded or digitized or both

Province	Municipality	Barangay	PurokName	hcn_NRDB	~match
LEYTE	TANAUAN	Binolo	Zone 2	22	1
LEYTE	TANAUAN	Binolo	Zone 3	20	1
LEYTE	TANAUAN	Binolo	Zone 5	59	1
LEYTE	TANAUAN	Binolo	Zone 2	20	-1
LEYTE	TANAUAN	Binolo	Zone 3	22	-1
LEYTE	TANAUAN	Binolo	Zone 3	59	-1
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	1	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	2	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	3	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	4	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	5	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	6	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	7	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	8	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	9	0
LEYTE	TANAUAN	Binolo	Zone 1, Binolo	10	0
LEYTE	TANAUAN	Binolo	Zone 2	11	0
LEYTE	TANAUAN	Binolo	Zone 2	12	0

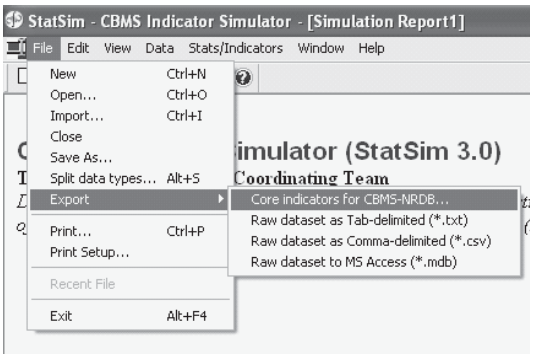
4. In the example shown above, all household IDs match except for household IDs 20, 22 and 59. The matching report, for example, is telling us that household ID 22 which is parented to Zone 2 can be found in the encoded file but not in the digitized map. On the other hand, another household with the same ID but parented to Zone 3 can be found in the digitized spot map but not in the encoded file. Note that we usually encounter this problem when there is "misparenting". In this example, household ID 22 was apparently misparented to Zone 2 in the encoded file when it should have been parented to Zone 3. To resolve cases such as this, go to the concerned household record's persistent items section in your encoding system and correct the parenting by changing the purok in the persistent items to the appropriate purok, in this case, Zone 3.
5. Once this is done, you can repeat the steps above and the matching report should now indicate that the household IDs in both the encoded file and the digitized spot map match.

INSTRUCTIONS ON IMPORTING PROCESSED CBMS CORE DATASET FROM CBMS STATSIM TO CBMS-NRDB

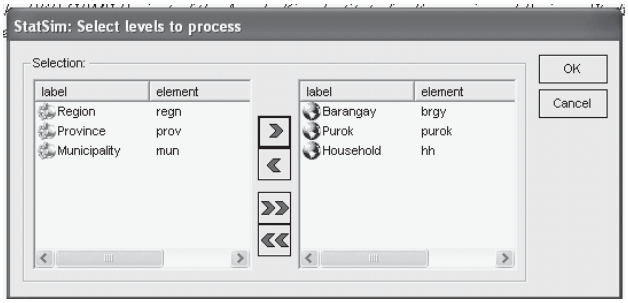
After processing the CBMS Core Indicators using the Statistics Simulator (StatSim) and ensuring that the household IDs in the encoded file and digitized

spot map match, the processed dataset can now be exported into the NRDB Pro in order to map the CBMS indicators.

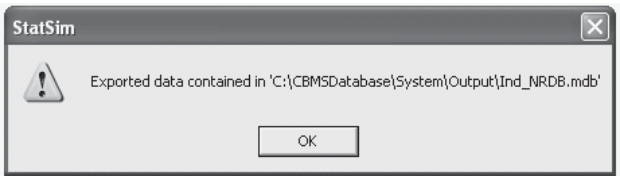
1. From the File menu, select **EXPORT.**
2. Select **Core Indicators for CBMS-NRDB.**



3. Select the following levels to process (whichever is applicable): Municipality, Barangay, Purok and Household.



4. Click **OK**. The following message box will appear:



You are now ready to map CBMS Core Indicators using the CBMS-NRDB.

Notes:

1. Every table need not have its own exclusive indicator. For instance, proportion of households without access to safe water is distributed to several indicator tables: household, purok, barangay, municipality, province and region. Hence, you do not need to add an indicator whenever a new table must be made. You must link this table to the related indicator. (The above examples only exhibit the whole process).
2. Short names are important because the system uses this to make tables. Although it is arbitrarily set by users, this must be set such that it could tell what it contains.
3. The types *expression*, *values*, *group by* and *where* only determine what kind of component you need.
    a. Expression—mostly done to get aggregates, counts, averages, etc.
    b. Value—used to display only the value.
    c. Group by—used to divide the observations into classes or groups. This is always used whenever counts or aggregates are used.
    d. Where—used to filter the tabulation or listing.
4. You can tabulate *alphanumeric* columns. This means you could tabulate texts such as occupation, programs, perception, etc.

Some commonly-used abbreviations/acronyms (please see *Annex 1* to view the data dictionary and list of variable names):

1. Prop—proportion
2. SWS—Safe water supply
3. STF—Sanitary toilet facility
4. Death05—Child death (0-5)
5. DeathPreg—Death due to pregnancy related causes
6. Maln05—Malnutrition
7. Squat—Squatters
8. MSH—Makeshift housing
9. Povp—Poverty
10. Subp—Subsistent poverty
11. Fshort—Food shortage
12. Unempl15ab—Unemployment (15 years old and above)
13. Elem612—Elementary participation (6-12)
14. HS1316—High school participation (13-16)

15. Sch616—School participation (6-16)
16. Liter10Ab—Literacy (10 years old and above)
17. regn—Region code
18. prov—Province code
19. mun—Municipality code
20. brgy—Barangay code
21. purok—Purok code

ANNEX 1:
DATA DICTIONARY AND LIST OF VARIABLE NAMES

TABLE	VARIABLE	VALUE	LABEL
asset_qnr	asset	1	Radio / Radio Cassette
asset_qnr	asset	2	Television
asset_qnr	asset	3	CD/VCD/DVD player
asset_qnr	asset	4	Stereo/Component
asset_qnr	asset	5	Karaoke
asset_qnr	asset	6	Refrigerator / Freezer
asset_qnr	asset	7	Electric Fan
asset_qnr	asset	8	Electric Iron
asset_qnr	asset	9	LPG Gas Stove/Range
asset_qnr	asset	10	Washing Machine
asset_qnr	asset	11	Microwave Oven
asset_qnr	asset	12	Personal Computer
asset_qnr	asset	13	Mobile Phone / Cellular Phone
asset_qnr	asset	14	Landline Telephone
asset_qnr	asset	15	Air conditioner
asset_qnr	asset	16	Sewing machine
asset_qnr	asset	17	Car, Jeep, Motorcycle and other motorized vehicles

TABLE	VARIABLE	VALUE	LABEL
crime_qnr	crimetype	1	Murder / Homicide
crime_qnr	crimetype	2	Theft
crime_qnr	crimetype	3	Rape
crime_qnr	crimetype	4	Physical Injury (not including battery)
crime_qnr	crimetype	5	Trafficking/ illegal recruitment
crime_qnr	crimetype	6	Economic abuse
crime_qnr	crimetype	7	Spousal / Partner abuse
crime_qnr	crimetype	8	Sexual harassment
crime_qnr	crimetype	9	Child abuse
crime_qnr	croptype	10	Other crimes (specified)
crop_qnr	croptype	1	Sugar Cane
crop_qnr	croptype	2	Palay
crop_qnr	croptype	3	Corn
crop_qnr	croptype	4	Coffee
crop_qnr	croptype	5	Other Crops
death_qnr	mdeady	1	Diseases of the heart
death_qnr	mdeady	2	Diseases of the vascular system
death_qnr	mdeady	3	Pneumonia
death_qnr	mdeady	4	Tuberculosis
death_qnr	mdeady	5	Cancer
death_qnr	mdeady	6	Diarrhea
death_qnr	mdeady	7	Measles
death_qnr	mdeady	8	Delivery
death_qnr	mdeady	9	Others

TABLE	VARIABLE	VALUE	LABEL
hh_qnr	agriland_area	1	Less than 1 hectare
hh_qnr	agriland_area	2	1 - 3 hectares
hh_qnr	agriland_area	3	3.1 - 5 hectares
hh_qnr	agriland_area	4	More than 5 hectares
hh_qnr	agriland_tenur	1	Own or owner-like possession
hh_qnr	agriland_tenur	2	Rent
hh_qnr	agriland_tenur	3	Rent-free with consent of owner
hh_qnr	agriland_tenur	4	Rent-free without consent of owner
hh_qnr	agriland_tenur	5	Others
hh_qnr	fishpond_area	1	Less than 1 hectare
hh_qnr	fishpond_area	2	1 - 3 hectares
hh_qnr	fishpond_area	3	3.1 - 5 hectares
hh_qnr	fishpond_area	4	More than 5 hectares
hh_qnr	roof	1	Strong materials (concrete, brick, stone, wood, galvanized iron)
hh_qnr	roof	2	Light materials (bamboo, sawali, cogon, nipa)
hh_qnr	roof	3	Salvaged/makeshift materials
hh_qnr	roof	4	Mixed but predominantly strong materials
hh_qnr	roof	5	Mixed but predominantly light materials
hh_qnr	roof	6	Mixed but predominantly salvaged materials
hh_qnr	tenur	1	Owner, owner-like possession of house and lot
hh_qnr	tenur	2	Rent house/room including lot
hh_qnr	tenur	3	Own house/rent lot
hh_qnr	tenur	4	Own house, rent-free lot with consent of owner
hh_qnr	tenur	5	Own house, rent-free lot without consent of owner

TABLE	VARIABLE	VALUE	LABEL
hh_qnr	tenur	6	Rent-free house and lot with consent of owner
hh_qnr	tenur	7	Rent-free house and lot without consent of owner
hh_qnr	tenur	8	Other tenure status
hh_qnr	toil	1	Water-sealed flush to sewerage/ septic tank-own
hh_qnr	toil	2	Water-sealed flush to sewerage/ septic tank-shared
hh_qnr	toil	3	Closed pit
hh_qnr	toil	4	Open pit
hh_qnr	toil	5	Pail system
hh_qnr	toil	6	No toilet
hh_qnr	toil	7	Others
hh_qnr	wall	1	Strong materials (concrete, brick, stone, wood, galvanized iron)
hh_qnr	wall	2	Light materials (bamboo, sawali, cogon, nipa)
hh_qnr	wall	3	Salvaged/makeshift materials
hh_qnr	wall	4	Mixed but predominantly strong materials
hh_qnr	wall	5	Mixed but predominantly light materials
hh_qnr	wall	6	Mixed but predominantly salvaged materials
hh_qnr	water	1	Community water system-own
hh_qnr	water	2	Community water system-shared
hh_qnr	water	3	Deep well-own
hh_qnr	water	4	Deep well-shared
hh_qnr	water	5	Artesian well-own
hh_qnr	water	6	Artesian well-shared
hh_qnr	water	7	Dug/shallow well-own
hh_qnr	water	8	Dug/shallow well-shared

TABLE	VARIABLE	VALUE	LABEL
hh_qnr	water	9	River, stream, lake, spring
hh_qnr	water	10	Bottled water
hh_qnr	water	11	Tanker truck/Peddler
hh_qnr	water	12	Other
hh_qnr	water_dist	1	Within premises
hh_qnr	water_dist	2	Outside premises but 250 meters or less
hh_qnr	water_dist	3	251 meters or more
hh_qnr	water_dist	4	Don't know
lstock_qnr	lstocktype	1	Hog for fattening
lstock_qnr	lstocktype	2	Sow
lstock_qnr	lstocktype	3	Goat
lstock_qnr	lstocktype	4	Carabao
lstock_qnr	lstocktype	5	Cow
lstock_qnr	lstocktype	6	Chicken
lstock_qnr	lstocktype	7	Chicken for egg laying
lstock_qnr	lstocktype	8	Duck
lstock_qnr	lstocktype	9	Other livestock/poultry
mem_qnr	civstat	1	Single
mem_qnr	civstat	2	Married
mem_qnr	civstat	3	Widow/er
mem_qnr	civstat	4	Divorced / Separated
mem_qnr	civstat	5	Common Law / Live-in
mem_qnr	civstat	6	Unknown
mem_qnr	disability_1	1	Total blindness
mem_qnr	disability_1	2	Partial blindness

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	disability_1	3	Low vision
mem_qnr	disability_1	4	Total deaf
mem_qnr	disability_1	5	Partially deaf
mem_qnr	disability_1	6	Hard of hearing
mem_qnr	disability_1	7	Oral defect
mem_qnr	disability_1	8	One hand
mem_qnr	disability_1	9	No hands
mem_qnr	disability_1	10	One leg
mem_qnr	disability_1	11	No legs
mem_qnr	disability_1	12	Mild cerebral palsy
mem_qnr	disability_1	13	Severe cerebral palsy
mem_qnr	disability_1	14	Regularly intellectually impaired
mem_qnr	disability_1	15	Severely intellectually impaired
mem_qnr	disability_1	16	Regularly impaired by mental illness
mem_qnr	disability_1	17	Severely impaired by mental illness
mem_qnr	disability_1	18	Regularly multiple impaired
mem_qnr	disability_1	19	Severely multiple impaired
mem_qnr	disability_1	20	Others (specify)
mem_qnr	disability_2	1	Total blindness
mem_qnr	disability_2	2	Partial blindness
mem_qnr	disability_2	3	Low vision
mem_qnr	disability_2	4	Total deaf
mem_qnr	disability_2	5	Partially deaf
mem_qnr	disability_2	6	Hard of hearing
mem_qnr	disability_2	7	Oral defect

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	disability_2	8	One hand
mem_qnr	disability_2	9	No hands
mem_qnr	disability_2	10	One leg
mem_qnr	disability_2	11	No leg
mem_qnr	disability_2	12	Mild cerebral palsy
mem_qnr	disability_2	13	Severe cerebral palsy
mem_qnr	disability_2	14	Regularly intellectually impaired
mem_qnr	disability_2	15	Severely intellectually impaired
mem_qnr	disability_2	16	Regularly impaired by mental illness
mem_qnr	disability_2	17	Severely impaired by mental illness
mem_qnr	disability_2	18	Regularly multiple impaired
mem_qnr	disability_2	19	Severely multiple impaired
mem_qnr	disability_2	20	Others (specify)
mem_qnr	disability_3	1	Total blindness
mem_qnr	disability_3	2	Partial blindness
mem_qnr	disability_3	3	Low vision
mem_qnr	disability_3	4	Total deaf
mem_qnr	disability_3	5	Partially deaf
mem_qnr	disability_3	6	Hard of hearing
mem_qnr	disability_3	7	Oral defect
mem_qnr	disability_3	8	One hand
mem_qnr	disability_3	9	No hands
mem_qnr	disability_3	10	One leg
mem_qnr	disability_3	11	No legs
mem_qnr	disability_3	12	Mild cerebral palsy

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	disability_3	13	Severe cerebral palsy
mem_qnr	disability_3	14	Regularly intellectually impaired
mem_qnr	disability_3	15	Severely intellectually impaired
mem_qnr	disability_3	16	Regularly impaired by mental illness
mem_qnr	disability_3	17	Severely impaired by mental illness
mem_qnr	disability_3	18	Regularly multiple impaired
mem_qnr	disability_3	19	Severely multiple impaired
mem_qnr	disability_3	20	Others (specify)
mem_qnr	educal	0	No Grade
mem_qnr	educal	1	Day Care
mem_qnr	educal	2	Nursery/Kindergarten/Preparatory
mem_qnr	educal	11	Grade 1
mem_qnr	educal	12	Grade 2
mem_qnr	educal	13	Grade 3
mem_qnr	educal	14	Grade 4
mem_qnr	educal	15	Grade 5
mem_qnr	educal	16	Grade 6/7
mem_qnr	educal	17	Elementary Graduate
mem_qnr	educal	21	1st Year HS
mem_qnr	educal	22	2nd Year HS
mem_qnr	educal	23	3rd Year HS
mem_qnr	educal	24	4th/5th Year HS
mem_qnr	educal	25	HS graduate
mem_qnr	educal	26	1st year PS
mem_qnr	educal	27	2nd year PS

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	educal	28	3rd year PS
mem_qnr	educal	29	PS graduate
mem_qnr	educal	31	1st year College
mem_qnr	educal	32	2nd year College
mem_qnr	educal	33	3rd year College
mem_qnr	educal	34	4th year College or higher
mem_qnr	educal	35	College graduate
mem_qnr	educal	36	With units Masters/Doctors
mem_qnr	educal	37	Doctors/Masters degree graduate
mem_qnr	freq_skipsch	1	more than 30 times in the last 3 months
mem_qnr	freq_skipsch	2	10-30 times in the last 3 months
mem_qnr	freq_skipsch	3	6- 9 times in the last 3 months
mem_qnr	freq_skipsch	4	1- 5 times in the last 3 months
mem_qnr	g_occ	1	Officials of Government and Special-Interest Organizations, Corporate Executives, Managers, Managing Proprietors and Supervisors
mem_qnr	g_occ	2	Physical, Mathematical and Engineering Science Professionals
mem_qnr	g_occ	3	Technician and Associate Professionals
mem_qnr	g_occ	4	Clerks
mem_qnr	g_occ	5	Service Workers and Shop and Market Sales Workers
mem_qnr	g_occ	6	Farmers, Forestry Workers and Fishermen
mem_qnr	g_occ	7	Trades and Related Workers
mem_qnr	g_occ	8	Plant and Machine Operators and Assemblers
mem_qnr	g_occ	9	Laborers and Unskilled Workers

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	g_occ	10	Special Occupations
mem_qnr	gradel	0	No Grade
mem_qnr	gradel	1	Day Care
mem_qnr	gradel	2	Nursery/Kindergarten/Preparatory
mem_qnr	gradel	11	Grade 1
mem_qnr	gradel	12	Grade 2
mem_qnr	gradel	13	Grade 3
mem_qnr	gradel	14	Grade 4
mem_qnr	gradel	15	Grade 5
mem_qnr	gradel	6	Grade 6/7
mem_qnr	gradel	21	1st Year HS
mem_qnr	gradel	22	2nd Year HS
mem_qnr	gradel	23	3rd Year HS
mem_qnr	gradel	24	4th/5th Year HS
mem_qnr	gradel	26	1st year PS
mem_qnr	gradel	27	2nd year PS
mem_qnr	gradel	28	3rd year PS
mem_qnr	gradel	31	1st year College
mem_qnr	gradel	32	2nd year College
mem_qnr	gradel	33	3rd year College
mem_qnr	gradel	34	4th year College or higher
mem_qnr	gradel	36	With units Masters/Doctors
mem_qnr	jsearch_meth	1	Registered in public employment agency
mem_qnr	jsearch_meth	2	Registered in employment agency
mem_qnr	jsearch_meth	3	Approached employer directly

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	jsearch_meth	4	Approached relatives / friends
mem_qnr	jsearch_meth	5	Placed or answered private advertisements
mem_qnr	jsearch_meth	6	Others (specified)
mem_qnr	jstatus	1	Permanent
mem_qnr	jstatus	2	Short-term, seasonal or casual
mem_qnr	jstatus	3	Worked on different jobs on day to day or week to week
mem_qnr	lastlookjob	1	4 to 6 months ago
mem_qnr	lastlookjob	2	more than 6 months ago
mem_qnr	org_type_1	1	Religious
mem_qnr	org_type_1	2	Youth
mem_qnr	org_type_1	3	Cultural
mem_qnr	org_type_1	4	Political
mem_qnr	org_type_1	5	Women's
mem_qnr	org_type_1	6	Agricultural
mem_qnr	org_type_1	7	Labor
mem_qnr	org_type_1	8	Others (Specified)
mem_qnr	org_type_2	1	Religious
mem_qnr	org_type_2	2	Youth
mem_qnr	org_type_2	3	Cultural
mem_qnr	org_type_2	4	Political
mem_qnr	org_type_2	5	Women's
mem_qnr	org_type_2	6	Agricultural
mem_qnr	org_type_2	7	Labor
mem_qnr	org_type_2	8	Others (Specified)
mem_qnr	org_type_3	1	Religious

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	org_type_3	2	Youth
mem_qnr	org_type_3	3	Cultural
mem_qnr	org_type_3	4	Political
mem_qnr	org_type_3	5	Women's
mem_qnr	org_type_3	6	Agricultural
mem_qnr	org_type_3	7	Labor
mem_qnr	org_type_3	8	Others (Specified)
mem_qnr	relgn	1	Roman Catholic
mem_qnr	relgn	2	Protestant
mem_qnr	relgn	3	Iglesia ni Cristo
mem_qnr	relgn	4	Aglipay
mem_qnr	relgn	5	Islam
mem_qnr	relgn	6	Others (specified)
mem_qnr	relgn	7	None
mem_qnr	reln	1	Head
mem_qnr	reln	2	Wife/Spouse
mem_qnr	reln	3	Son/Daughter
mem_qnr	reln	4	Son in law/Daughter in law
mem_qnr	reln	5	Grandson/Granddaughter
mem_qnr	reln	6	Father/Mother
mem_qnr	reln	7	Other Relatives
mem_qnr	reln	8	Housemaid/boy
mem_qnr	reln	9	Other non-relatives
mem_qnr	sector	1	Agriculture, Mining and Forestry
mem_qnr	sector	2	Fishing

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	sector	3	Mining and Quarrying
mem_qnr	sector	4	Manufacturing
mem_qnr	sector	5	Electricity, Gas and Water Supply
mem_qnr	sector	6	Construction
mem_qnr	sector	7	Wholesale and Retail Trade, Vehicle Repair
mem_qnr	sector	8	Hotel and Restaurants
mem_qnr	sector	9	Transportation, Storage & Communication
mem_qnr	sector	10	Financial Intermediation
mem_qnr	sector	11	Real Estate, Renting and Business Activities
mem_qnr	sector	12	Public Administration and Defense
mem_qnr	sector	13	Education
mem_qnr	sector	14	Health and Social Work
mem_qnr	sector	15	Other community, Social or Personal Activities
mem_qnr	sector	16	Private Households with Employed Persons
mem_qnr	sector	17	Extra-territorial Organizations
mem_qnr	skill1	1	Carpentry
mem_qnr	skill1	2	Crop Farming
mem_qnr	skill1	3	Aquaculture
mem_qnr	skill1	4	Fish Capture
mem_qnr	skill1	5	Livestock Raising
mem_qnr	skill1	6	Automotive
mem_qnr	skill1	7	Beauty Care
mem_qnr	skill1	8	Food Processing
mem_qnr	skill1	9	Handicrafts

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	skill1	10	Others
mem_qnr	skill2	1	Carpentry
mem_qnr	skill2	2	Crop Farming
mem_qnr	skill2	3	Aquaculture
mem_qnr	skill2	4	Fish Capture
mem_qnr	skill2	5	Livestock Raising
mem_qnr	skill2	6	Automotive
mem_qnr	skill2	7	Beauty Care
mem_qnr	skill2	8	Food Processing
mem_qnr	skill2	9	Handicrafts
mem_qnr	skill2	10	Others
mem_qnr	skill3	1	Carpentry
mem_qnr	skill3	2	Crop Farming
mem_qnr	skill3	3	Aquaculture
mem_qnr	skill3	4	Fish Capture
mem_qnr	skill3	5	Livestock Raising
mem_qnr	skill3	6	Automotive
mem_qnr	skill3	7	Beauty Care
mem_qnr	skill3	8	Food Processing
mem_qnr	skill3	9	Handicrafts
mem_qnr	skill3	10	Others
mem_qnr	workcl	0	Worked for a household
mem_qnr	workcl	1	Worked for a private establishment
mem_qnr	workcl	2	Worked for government/ government corporation
mem_qnr	workcl	3	Self employed without employees

TABLE	VARIABLE	VALUE	LABEL
mem_qnr	workcl	4	Employer in own family-operated farm or business
mem_qnr	workcl	5	Worked with pay on own family operated farm or business
mem_qnr	workcl	6	Worked without pay on own family operated farm or business
mem_qnr	ynotlookjob	1	Believes no work available
mem_qnr	ynotlookjob	2	Await results of previous application
mem_qnr	ynotlookjob	3	Temporary illness/disability
mem_qnr	ynotlookjob	4	Bad weather
mem_qnr	ynotlookjob	5	Waiting for rehire
mem_qnr	ynotlookjob	6	Too young/old, retired or permanently disabled
mem_qnr	ynotlookjob	7	Housekeeping
mem_qnr	ynotlookjob	8	Schooling
mem_qnr	ynotlookjob	9	Seasonal work and it's off season
mem_qnr	ynotlookjob	10	Others (specified)
mem_qnr	yskipsch	1	To engage in paid/ self employment
mem_qnr	yskipsch	2	To help in family farm or business
mem_qnr	yskipsch	3	To attend to household chores
mem_qnr	yskipsch	4	To take care of younger children, sick, disabled or elder member of the household
mem_qnr	yskipsch	5	Has no allowance for school
mem_qnr	yskipsch	6	Not interested in going to school
mem_qnr	yskipsch	7	Illness/disability
mem_qnr	yskipsch	8	Others
ofw_qnr	ofw_reln	1	Head
ofw_qnr	ofw_reln	2	Wife/Spouse

TABLE	VARIABLE	VALUE	LABEL
ofw_qnr	ofw_reln	3	Son/Daughter
ofw_qnr	ofw_reln	4	Son in law/Daughter in law
ofw_qnr	ofw_reln	5	Grandson/Granddaughter
ofw_qnr	ofw_reln	6	Father/Mother
ofw_qnr	ofw_reln	7	Other Relatives
ofw_qnr	ofw_reln	8	Housemaid/boy
ofw_qnr	ofw_reln	9	Other non-relatives
prog_qnr	progtype	1	Supplemental feeding program
prog_qnr	progtype	2	Health assistance program (Ex. PhilHealth for indigents, free eye checkup, dental services, etc.)
prog_qnr	progtype	3	Education / scholarship program
prog_qnr	progtype	4	Skills or livelihood training program
prog_qnr	progtype	5	Housing program
prog_qnr	progtype	6	Credit program
prog_qnr	progtype	7	Other types of program
prop_qnr	prop	1	House
prop_qnr	prop	2	Residential lot
prop_qnr	prop	3	Agricultural land
prop_qnr	prop	4	Commercial land
prop_qnr	prop	5	Carabao / cow
prop_qnr	prop	6	Plow
prop_qnr	prop	7	Harrow
prop_qnr	prop	8	Mower
prop_qnr	prop	9	Thresher
prop_qnr	prop	10	Insecticide sprayer

TABLE	VARIABLE	VALUE	LABEL
prop_qnr	prop	11	Tractor
prop_qnr	prop	12	Granary/warehouse
prop_qnr	prop	13	Farmshed
prop_qnr	prop	14	Irrigation pump
prop_qnr	prop	15	Fishing boat
prop_qnr	prop	16	Fishing gear/net
prop_qnr	prop	17	Car/van
prop_qnr	prop	18	Jeep/jeepney
prop_qnr	prop	19	Boat
prop_qnr	prop	20	Motorcycle/tricycle
role_qnr	hh_activity	1	Cooking
role_qnr	hh_activity	2	Child rearing
role_qnr	hh_activity	3	Baby sitting
role_qnr	hh_activity	4	Help in schoolwork
role_qnr	hh_activity	5	Washing clothes
role_qnr	hh_activity	6	Washing dishes
role_qnr	hh_activity	7	Fetching/collecting water
role_qnr	hh_activity	8	Collecting firewood
role_qnr	hh_activity	9	Feeding/bathing domestic animals
role_qnr	hh_activity	10	Backyard gardening